

# REQUIREMENT MODEL FOR STUDENT MANAGEMENT SYSTEM

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UNIVERSITI UTARA MALAYSIA  
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# **REQUIREMENT MODEL FOR STUDENT MANAGEMENT SYSTEM**

**A dissertation submitted to the Faculty of Information Technology in partial  
fulfillment of the requirement for the degree  
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## ABSTRAK

Di dalam sebarang pembangunan projek yang bermatlamatkan penghasilan objek, fokus utama analisis sistem dan rekabentuk sistem adalah kepada model. Bagi menghasilkan model ini analisis sistem mesti mengenalpasti keperluan pengguna. Keperluan ini membantu sistem analisis memahami keperluan baru serta cara untuk memenuhi keperluan atau kepuasan pengguna.

Model keperluan merupakan salah satu teknik yang digunakan untuk mengenalpasti keperluan. Model keperluan memberikan gambaran yang sepenuhnya mengenai keperluan sesuatu sistem. Tujuan utama projek ini adalah untuk merekabentuk Model Keperluan bagi Sistem Pengurusan Pelajar. Model sistem and prototaip telah digunakan untuk menguji keperluan.

Model ini akan ditakrifkan dengan jelas supaya keseluruhan model menjadi tepat, lengkap dan mudah dikenalpasti. Notasi UML telah digunakan untuk merekabentuk model keperluan manakala HOORA Analysis Tools digunakan untuk menguji dan mengesahkan model keperluan. Satu senarai keperluan akan dihasilkan diakhir projek ini. Di akhir projek ini masalah dan limitasi yang di hadapi dalam projek ini berserta beberapa cadangan akan dibincangkan.

## ABSTRACT

In any development project the aims at producing artifact, the main focus of both analysis and design activities are on models. To produce this model, the analyst must identify the user requirement. The requirement helps to understand the new needs and how to full fill or satisfied the user.

Requirement model is one of the techniques used to model out the requirement. Requirement model is a model that gives a complete view of the requirement for the particular system. The purpose of this study is to create the requirement model for student management. System Modeling and prototyping was used to validate the requirement.

The model must rich of meaning where the whole requirement model must be accurate, complete and instantly recognizable. The UML graphical notation was used to model out the requirement, mean while HOORA Analysis Tools was used to validate the requirement model. A set of requirement list will be produced in this study. In the end of this study the problem and limitation of the project and the recommendations for future research will be discuss.

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## **CHAPTER ONE**

### **INTRODUCTION**

Managing student becomes one of the core activities for the teacher and administrator. According to Regional Service Center Computer Cooperative (2003) management system designed to help all students learn self-discipline and to develop a positive attitude towards learning and their school lives. Further it can help analyze their features and the reports that can be generated to help school manage more effectively and more efficiently. According to the CEC Today (2004) student management system not only manage student progress but it help teacher to improve their instructional effectiveness and prepare their students for state assessments and improve their students' pass rate. In additional it can help reduce in appropriate referrals to special education, help teachers write IEP goals, and track how well students are doing in inclusive environments. According to the Texas Computer Cooperative web (2003) which provides student Management system believe that the school administrator can manage school more effectively and more efficiently based on featured they provided such as a real time relation database and update and read-only security at the control of the district. Other then that, to handle student attendance this application gives you the capability to specify an official attendance accounting period, then to maintain as many of the other attendance

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